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TITLE : POLYACETAL BLOCK COPOLYMER
EXCELLENT IN LUBRICATION
CHARACTERISTIC AND ITS
PRODUCTION



ABSTRACT : PURPOSE: To obtain a polyacetal block copolymer improved in self lubricating characteristics by (co)polymerizing formaldehyde with trioxane and (a cyclic ether) in the presence of a specific molecular weight modifier.

CONSTITUTION: A polyacetal block copolymer is obtained by homopolymerizing formaldehyde or trioxane or copolymerizing the formaldehyde or trioxane with a cyclic ether in the presence of a compound such as polyethylene, having hydroxyl group at one terminal and containing a functional group such as hydroxyl group, carboxyl group, amino group, ester group and/or an alkoxy group in one terminal or both terminals of a polymer, composed of recurring units of methylene units expressed by the formula and having ≥ 400 number-average molecular weight as a molecular weight modifier. The aforementioned block copolymer is an A-B(-A) block copolymer, constructed from (A) polyoxymethylene segments and (B) polymethylene segments and having 10000-50000 number-average molecular weight.

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